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Dated: April 4, 2005 Signature: 

(Rebecca McElroy)

Docket No.: 312762003800  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Ping JIANG et al.

Group Art Unit: 1636

Examiner: J. Ketter

Application No.: 10/643,785

Confirmation No. 4106

Filed: August 18, 2003

For: REAL TIME MEASUREMENT OF  
CELLULAR RESPONSES

**TRANSMITTAL OF DRAWING CORRECTION**

Attn: Patricia Small  
Commissioner for Patents  
2900 Crystal Drive, Room 7A32B  
Arlington, Virginia 22202

Dear Sir:

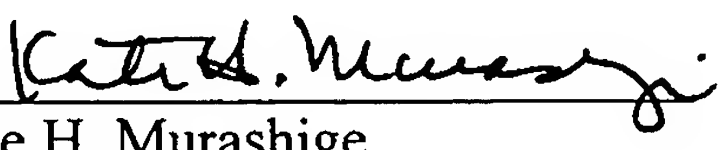
Submitted herewith is one set (thirteen sheets, eleven figures) of corrected drawings for filing in the above-identified Patent application.

The drawings were objected to for lack of clarity and have been corrected in accordance with 37 CFR 1.84(l) and 37 CFR 1.84(m). The enclosed new drawings correct these informalities.

Favorable consideration of the enclosed drawings is respectfully requested.

Dated: April 4, 2005

Respectfully submitted,

By   
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*Figure 1*

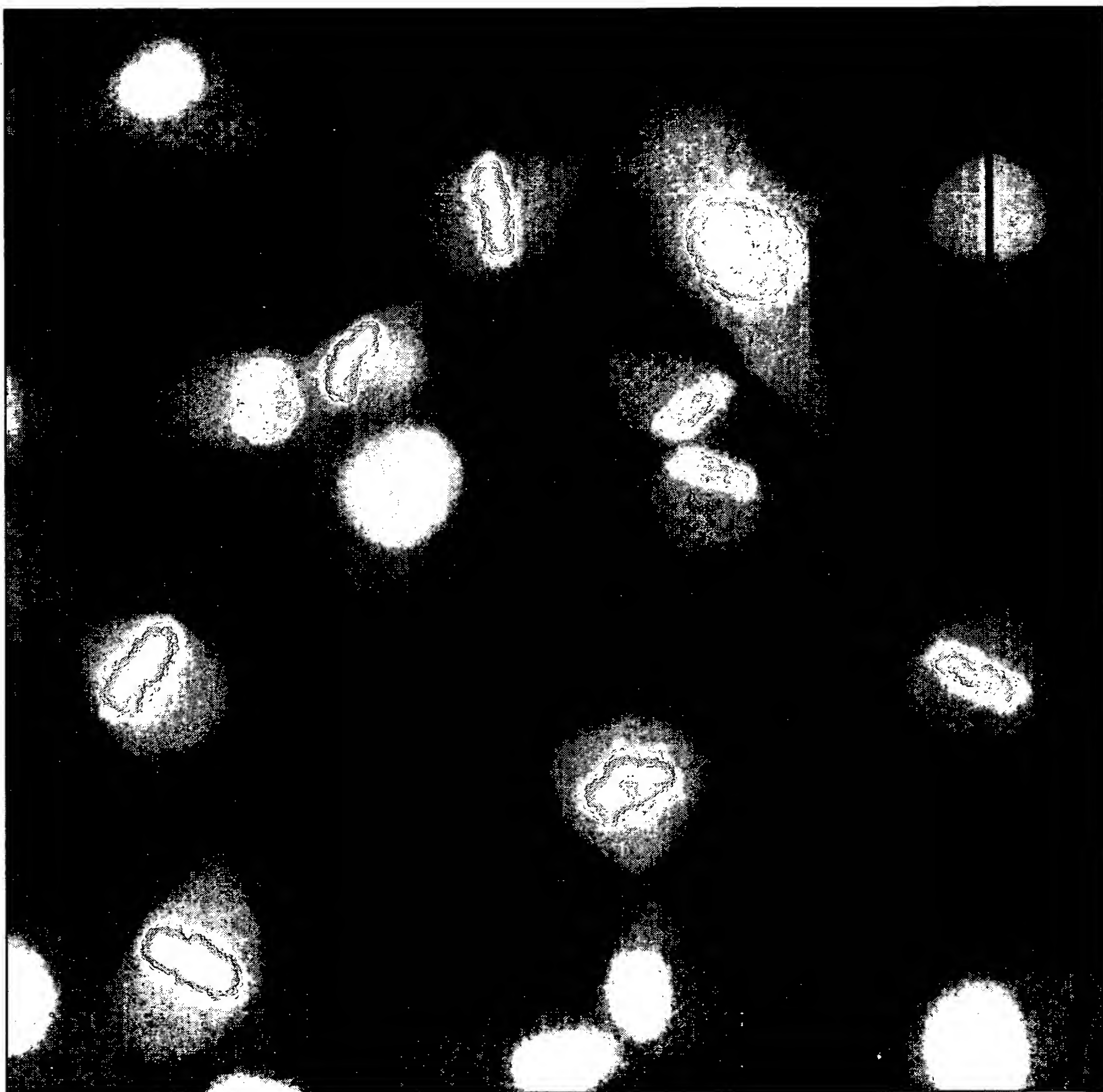


Figure 2

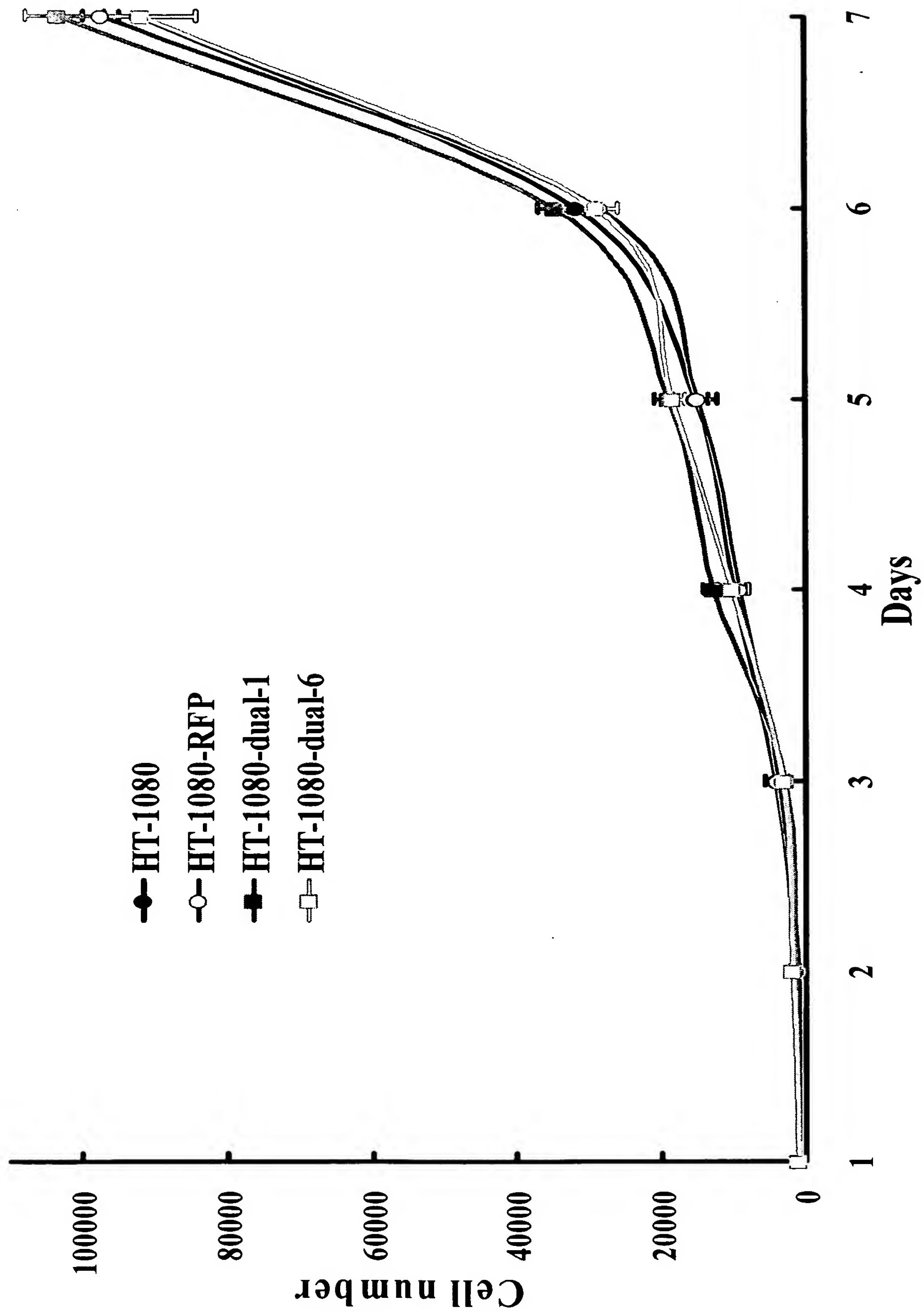


Figure 3A

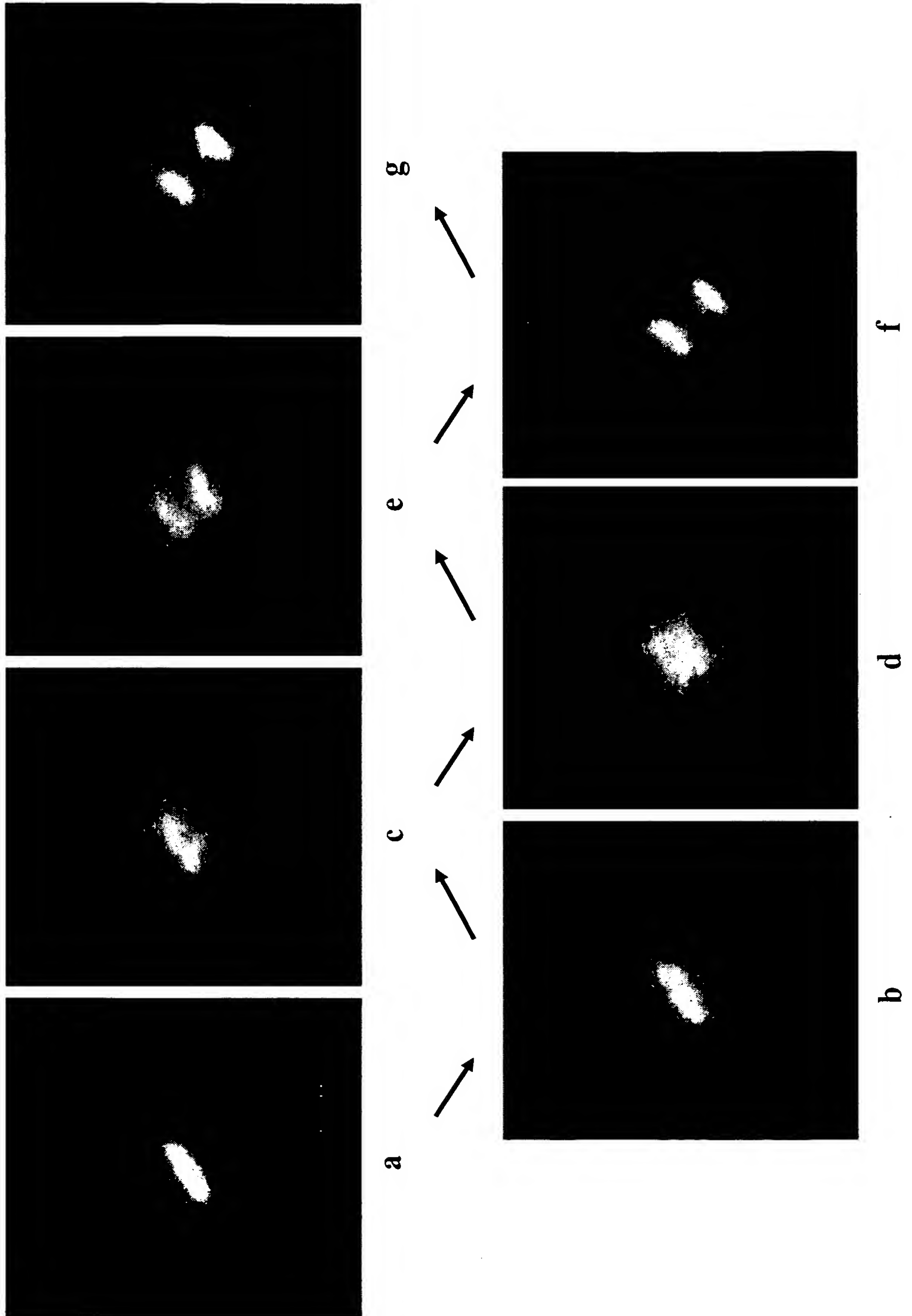
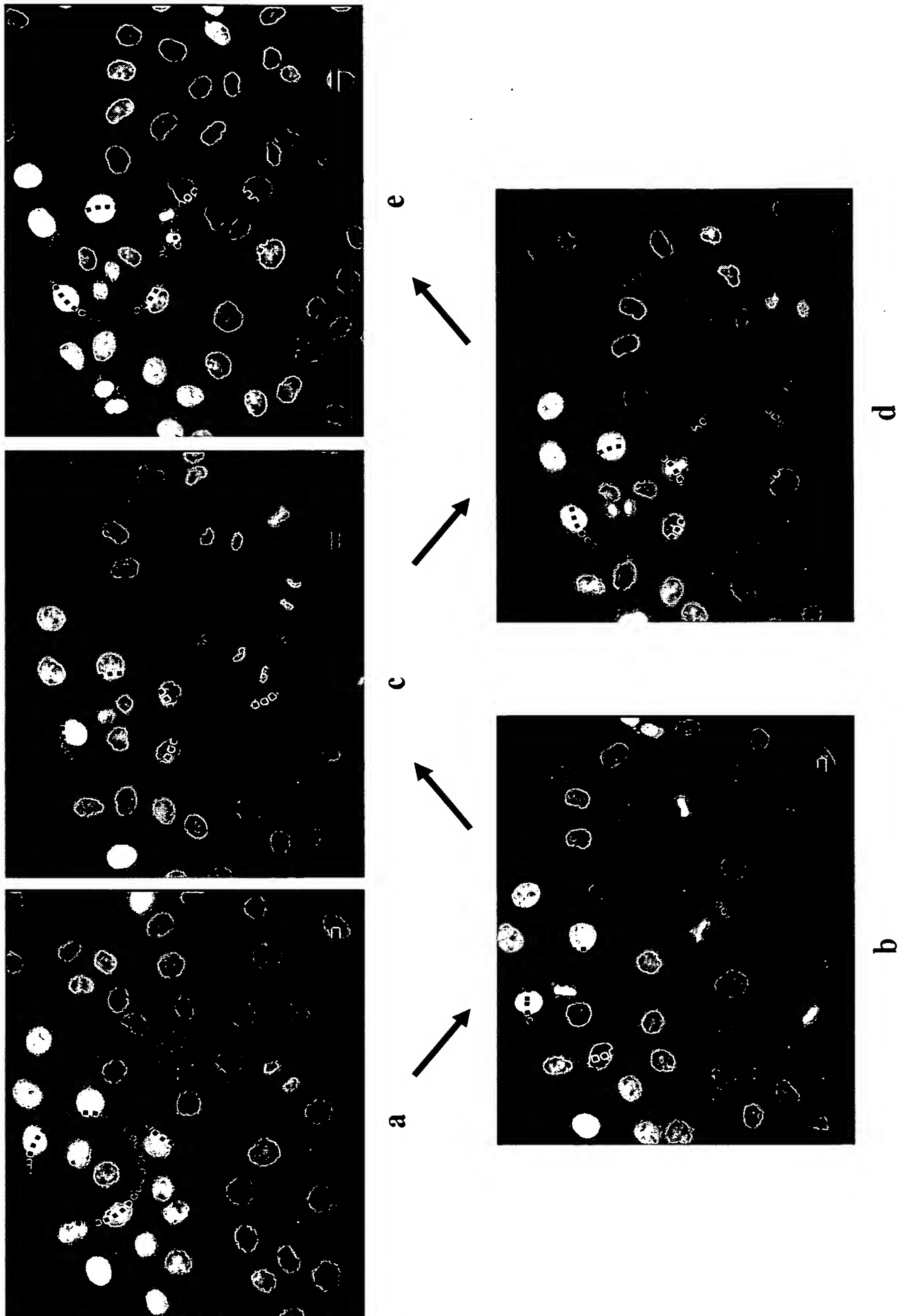
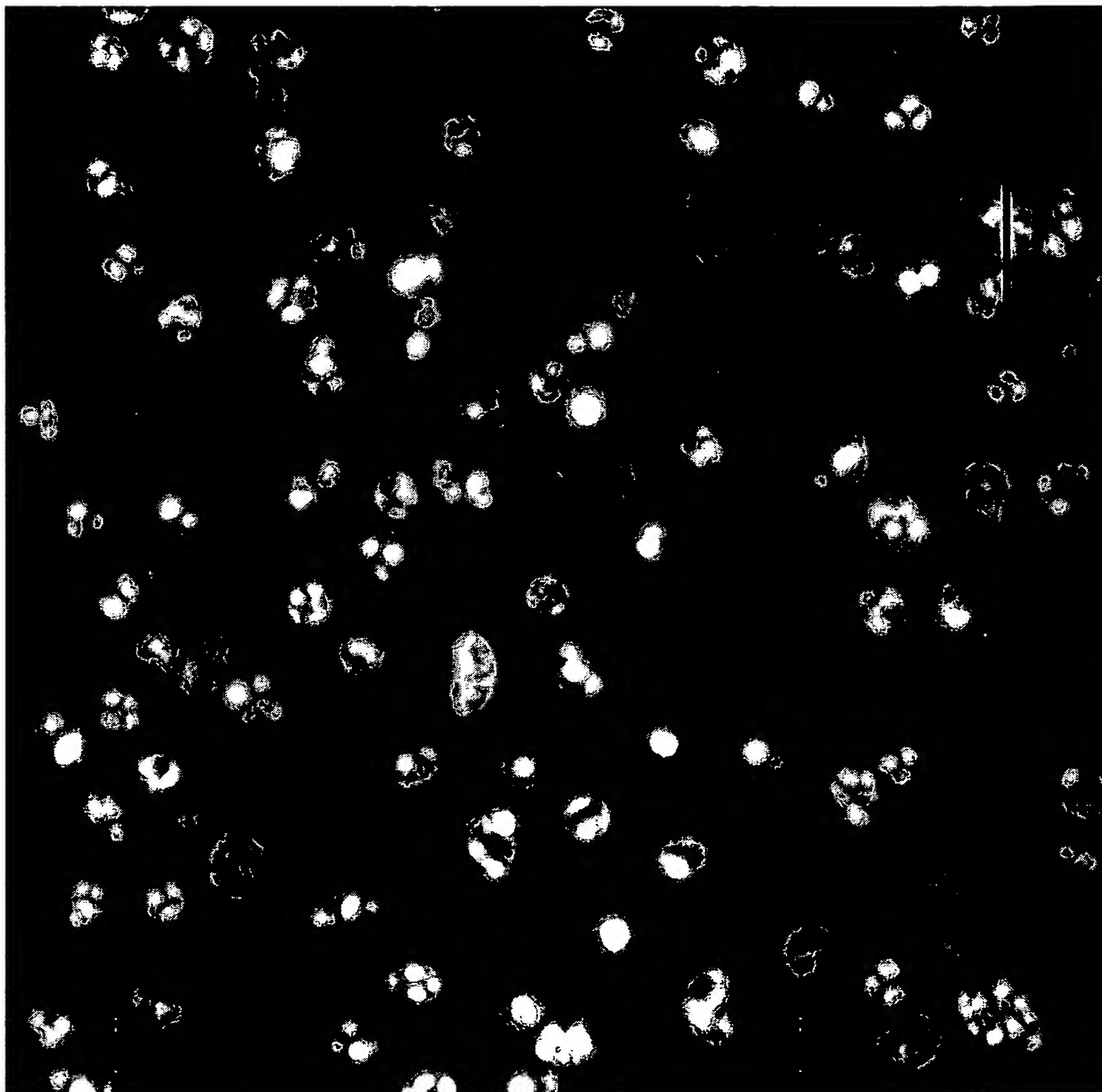


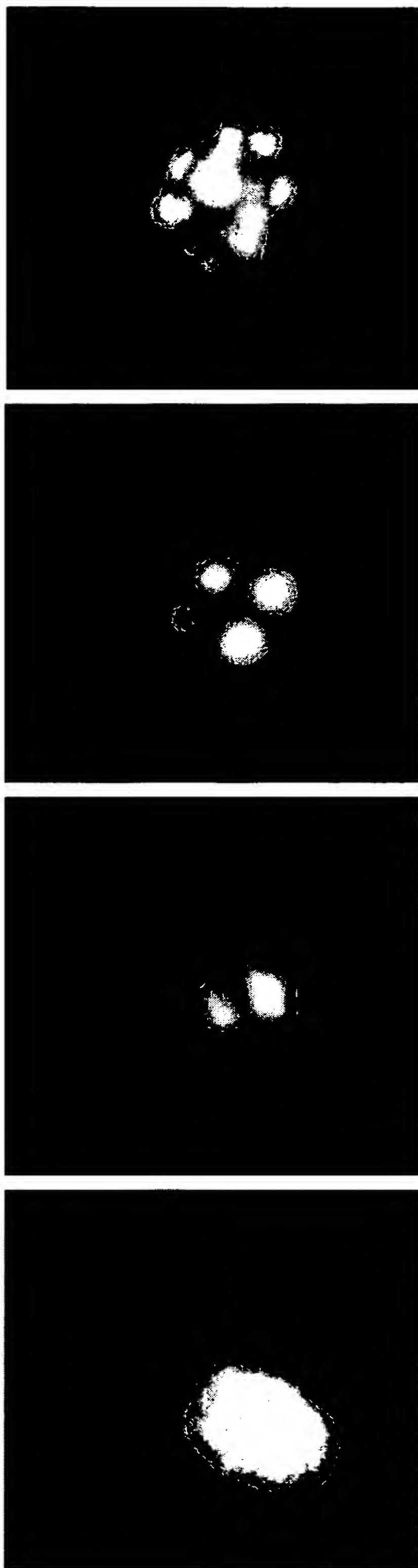
Figure 3B



*Figure 4A*



*Figure 4B*

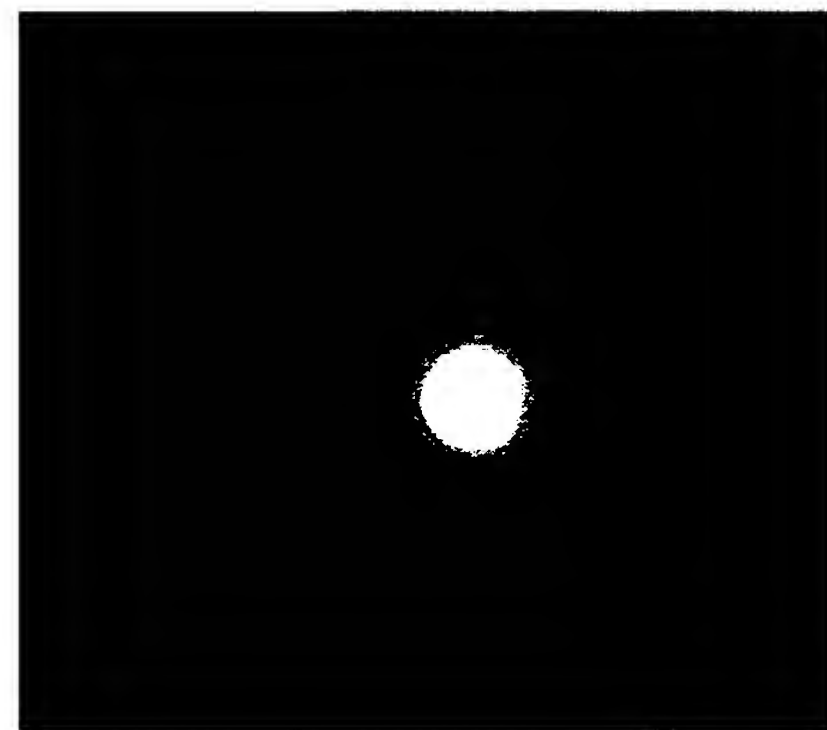


a

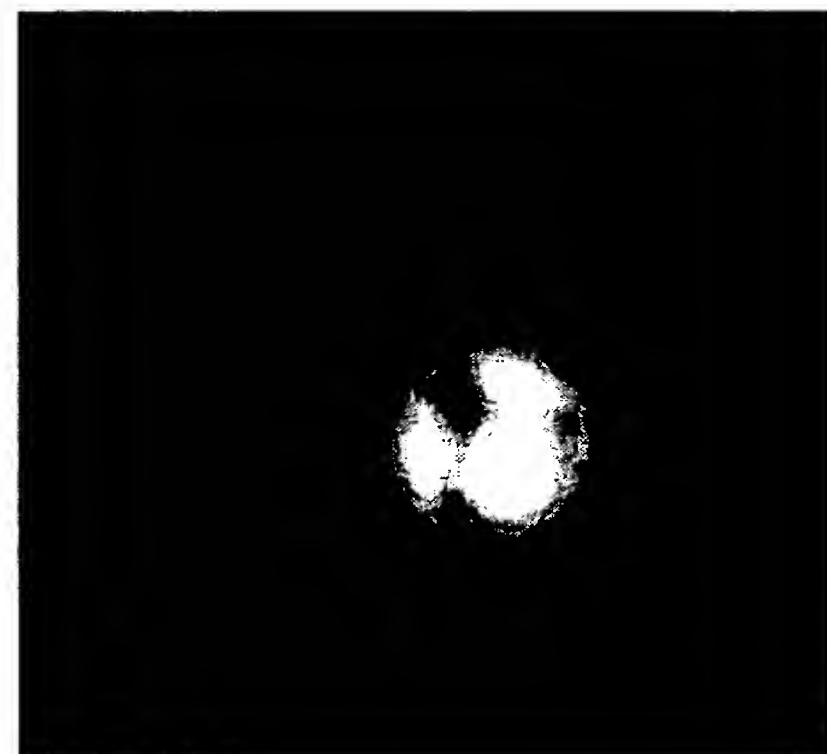
b

c

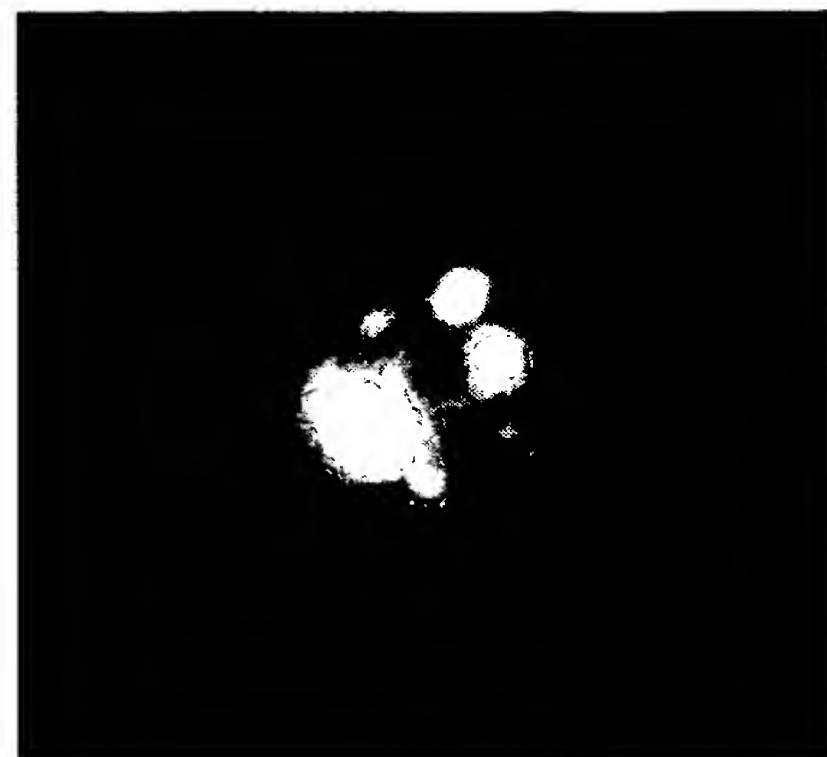
d



e

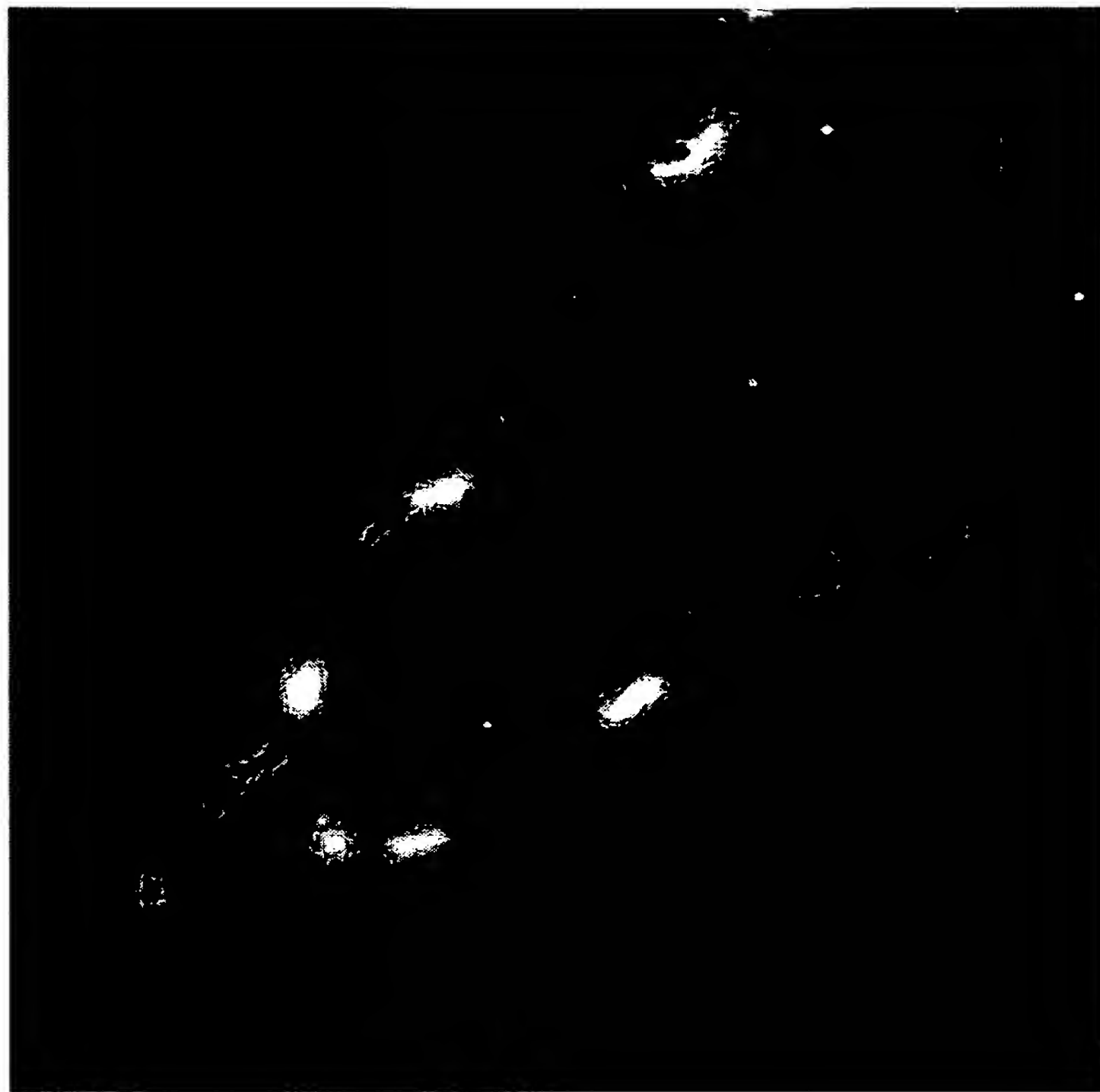


f

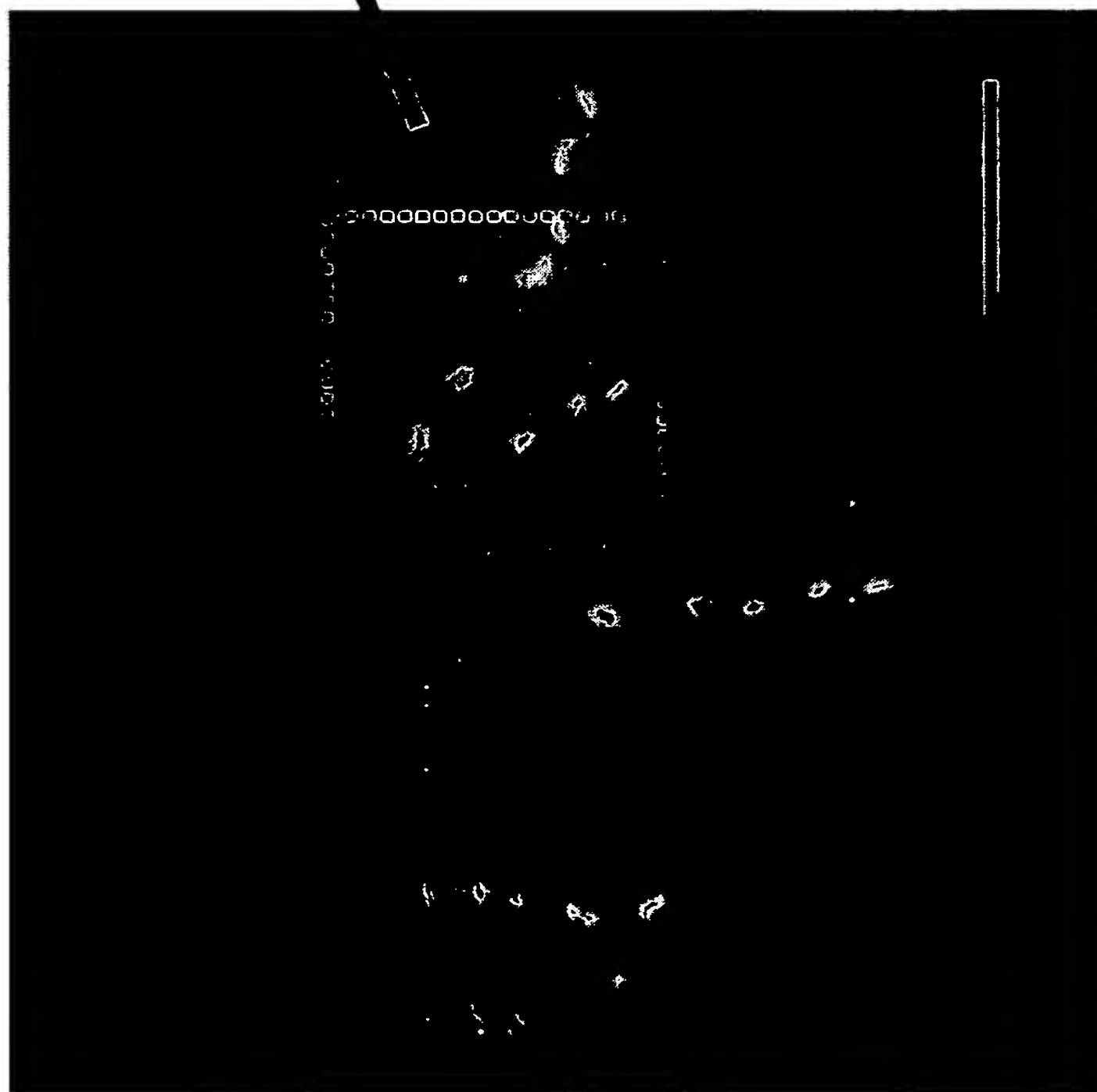


g

Figure 5



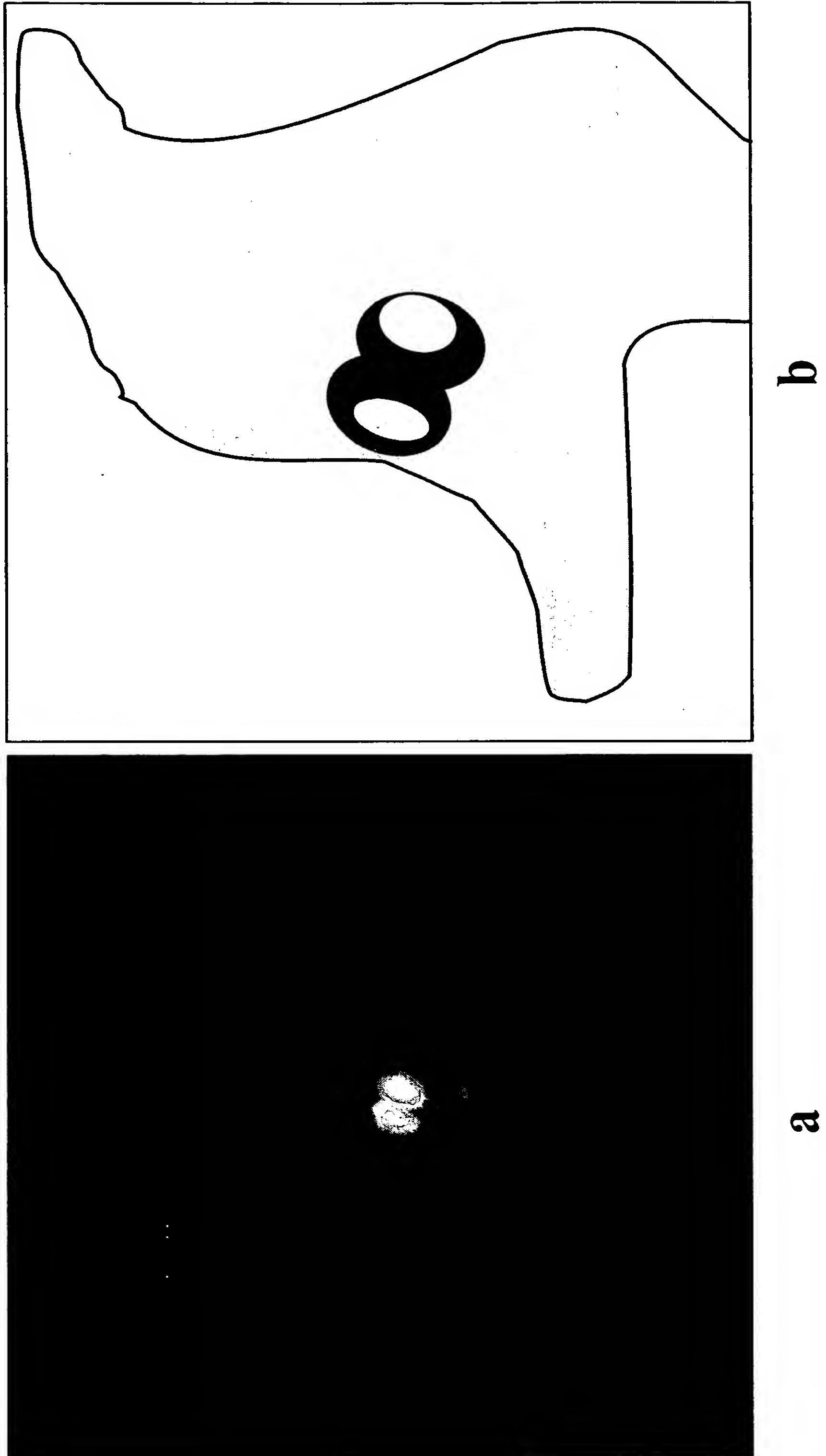
b



a



*Figure 6*



**G<sub>1</sub>- Phase:**



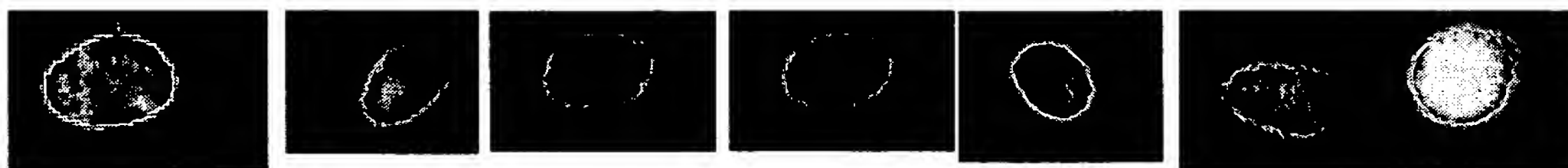
**A**

**S- Phase:**



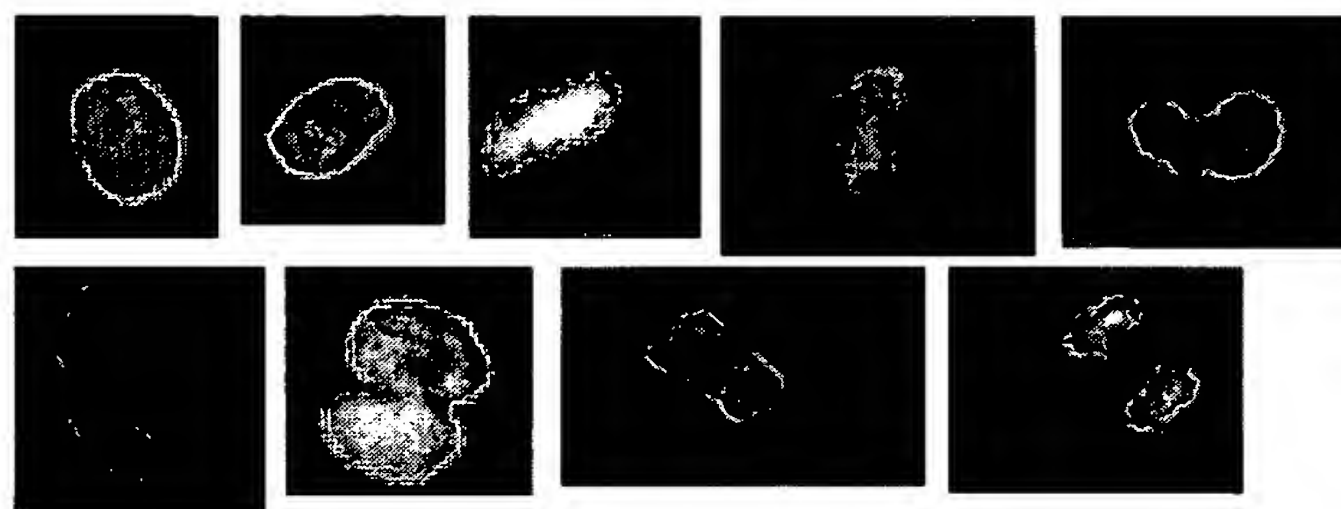
**B**

**G<sub>2</sub>- Phase:**



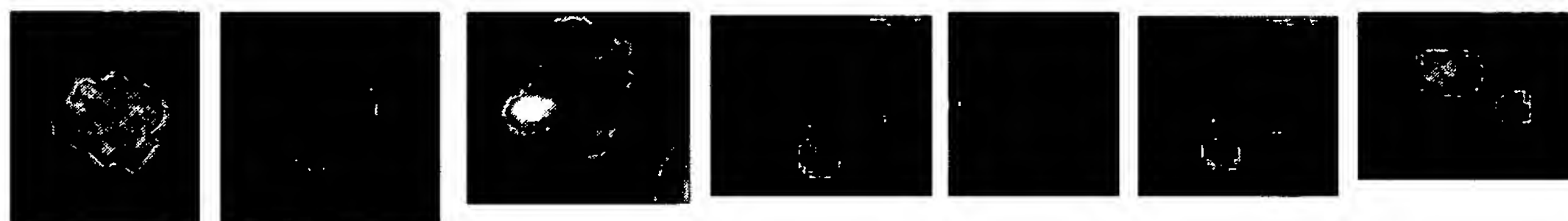
**C**

**M- Phase:**



**D**

**Apoptotic  
Cells:**



**E**

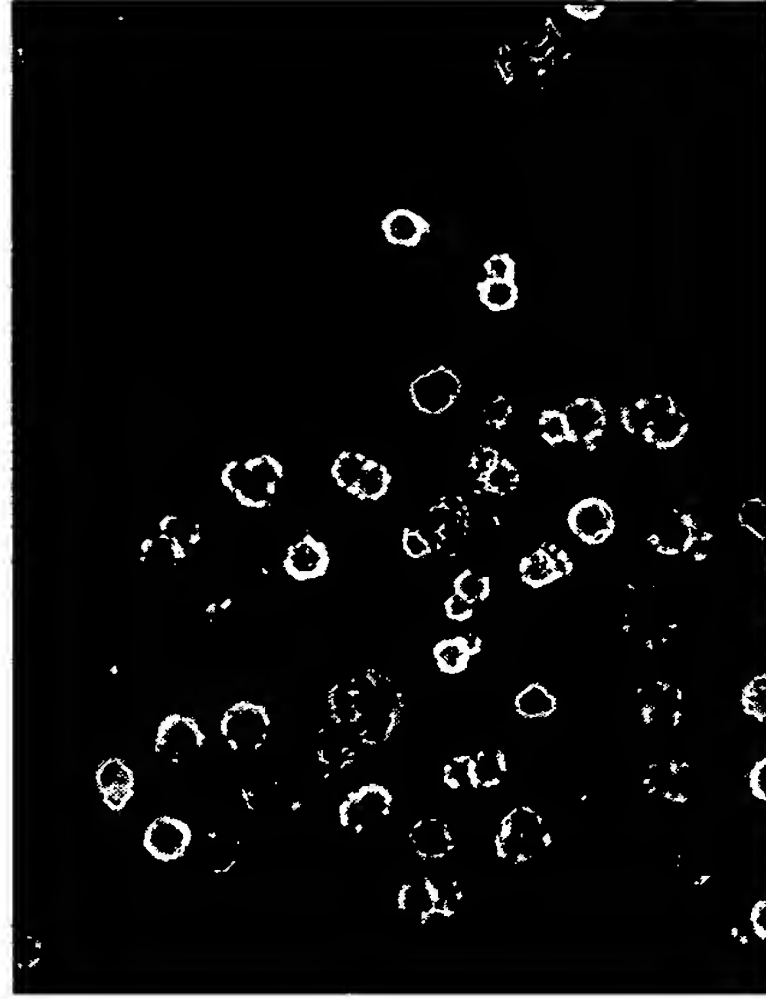
**Figure 7**

**PC-3 Dual Cells were treated by Taxol (0.8  $\mu$ g/ml)**

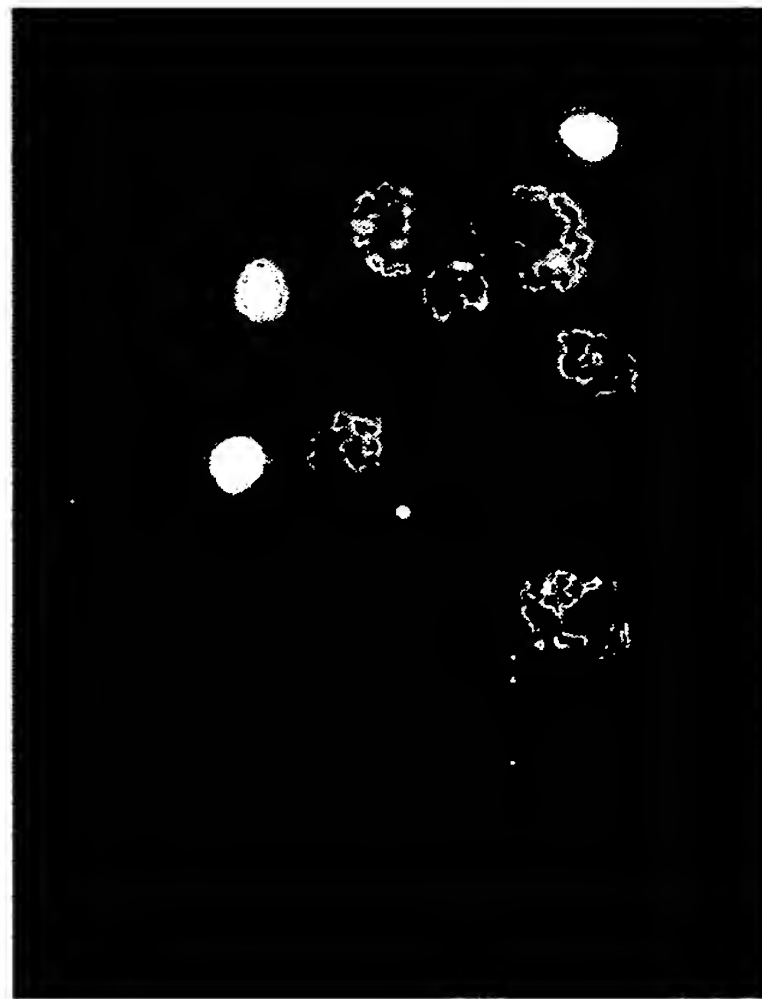
**Figure 8**



**T0 (Magnification:200x)**



**T24 (Magnification:200x)**



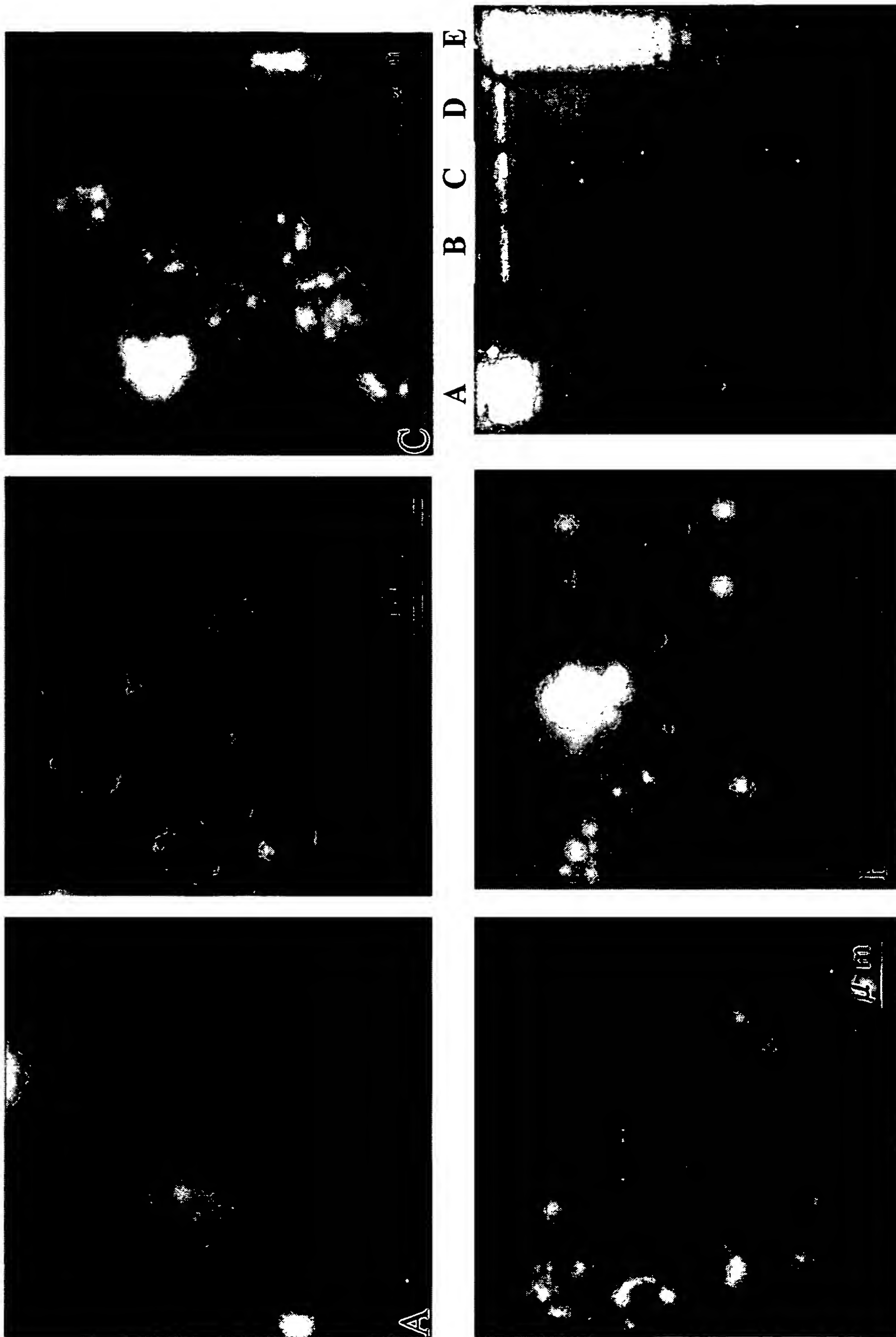
**T48 (Magnification:200x)**



**T96 (Magnification:200x)**

*Visualizing taxol induced apoptotic cells in vitro in real time*

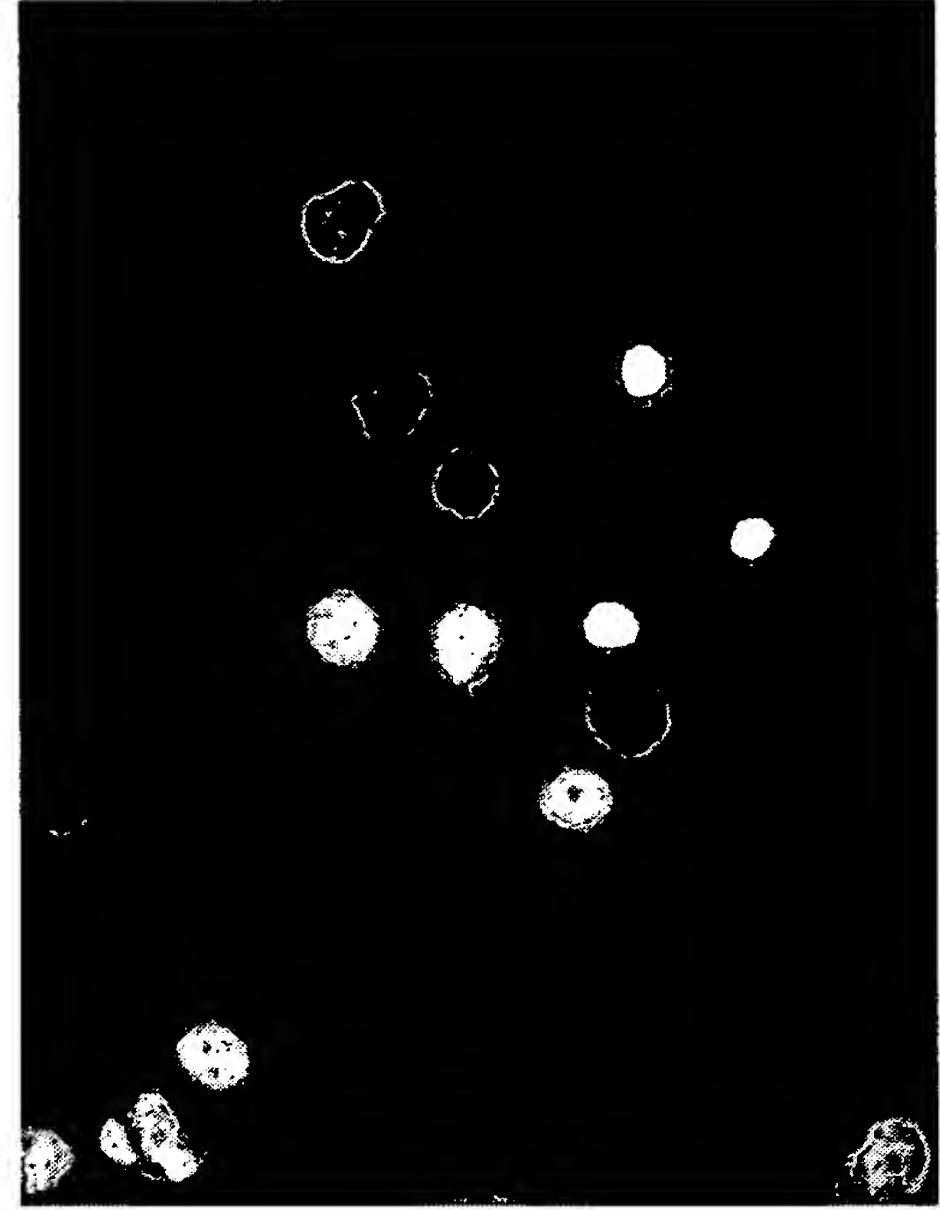
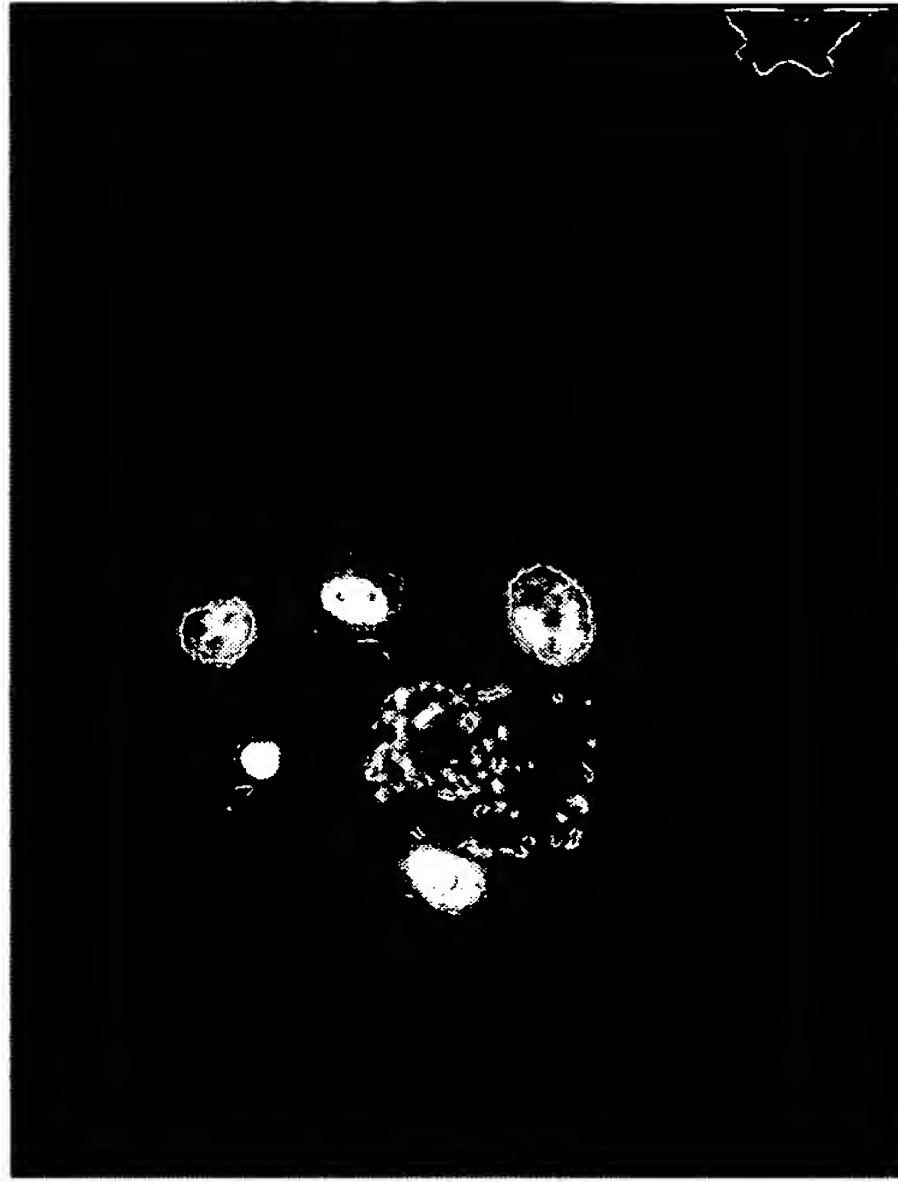
*Figure 9*



*Real-time apoptoses were observed under fluorescence microscopy and verified by DNA ladder analysis when PC-3-  
dual cells were incubated with 0.8  $\mu$ g Taxol. (A) control; (B) 12 hours after treatment; (C) 24 hours after  
treatment; (D) 36 hours after treatment; (E) 48 hours after treatment.*

*Figure 10*

PC-3 Dual Cells were treated by Vinblastin (62 $\mu$ g/ml)



T0 (Magnification:200x)

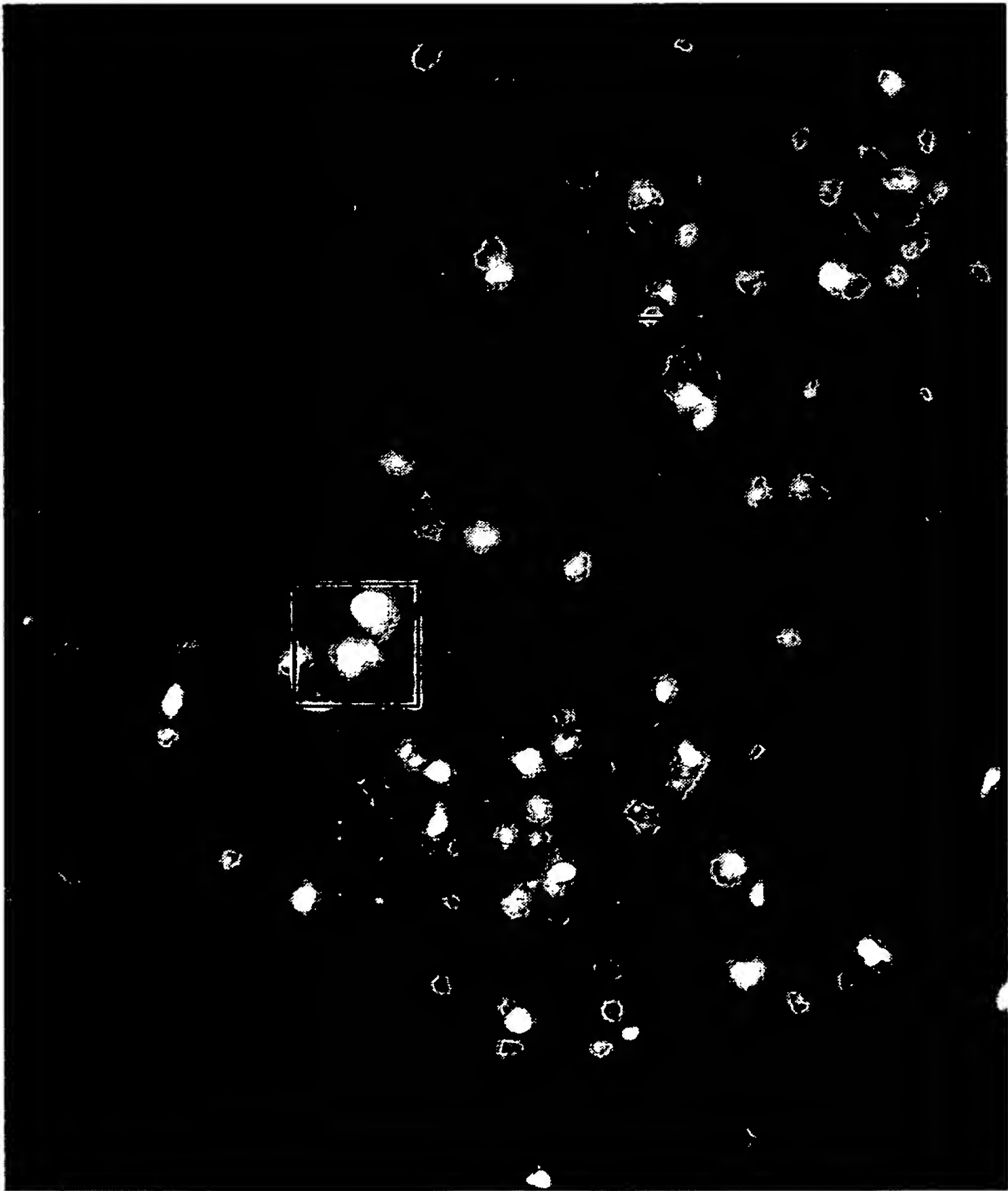


T48 (Magnification:200x)

T96 (Magnification:200x)

*Figure 11*

*Visualizing apoptotic cancer cells in vivo*



100x



200x

*PC-3 Dual colored human prostate cancer cells were injected in the foot pad of nude mice. The mice were sacrificed after 20 days. Apoptotic PC-3 dual colored cell was observed in the lymph node under fluorescence microscopy*